BICA reference guide

Donald L. Kreher

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Contents

Prologue

This document describes how to properly construct a bibliography for an article that is to be included in the *Bulletin of the Institute of Combinatorics and its Applications*, or *BICA* for short. It is divided into three parts. Part I is designed for those who do not wish to use BIBTEX; it includes instructions on how to match the *BICA* bibliography style with examples. Part II is designed for those who plan to use BIBTEX. There are advantages to either method: Managing your own BIBTEX database (`.bib`) file has gotten easier with online citation generators like MathSciNet. On the other hand, it is perhaps more natural to just write the bibliography anew, for which you need only follow carefully the style described in the first part. Part III contains a complete bibliography in the *BICA* style and a convenient list of standard abbreviations for select combinatorics and graph theory journals, which you will need regardless the method used to generate your bibliography.

Part I
I want to do it myself

Contents

1 The font styles used in a *BICA* bibliography

We use the following fonts in bibliographies to appear in *BICA*:

- Normal font style, which is the default font style and generally requires no LaTeX commands.

- **Bold** font style: `\textbf{...}`, `{\bfseries...}` or `{\bf..}`.

- Small caps font style: `\textsc{...}`, `{\scshape...}` or `{\sc...}`.

- *Slanted* font style: `\textsl{...}`, `{\slshape...}` or `{\sl...}`.

- `Monospaced` font style: `\texttt{...}`, `{\ttfamily...}` or `{\tt...}`.

> **Note: The *italic* font style should never be used in a *BICA* article bibliography.**

In general the `green commands` are preferred over their equivalent font style switches because they will automatically correct spacing immediately following the end of the selected font style. For example:

$$\{\texttt{\textbackslash slshape Half}\}\{\texttt{\textbackslash scshape Baked}\} \text{ gives us } Half\textsc{Baked}$$

whereas

$$\texttt{\textbackslash textsl\{Half\}\textbackslash textsc\{Baked\}} \text{ yields } Half \textsc{Baked}.$$

The `black` font style switches are useful for long passages.

The `red font style switches` are obsolete and should not be used. The obsolete font style switching commands do not support the LaTeX 2_ε new font selection scheme, or NFSS. For example `{\bf Hello}` will reset all font style attributes previously set before it prints Hello in bold face. This is why you cannot simply define a bold-italics style by `{\it \bf Hello}` only. (This definition will produce **Hello**.) On the other hand, the commands `\textit{\textbf{Hello}}` behaves as expected producing ***Hello***.

In the *BICA* bibliography style:

- authors are in normal font,
- article titles are in normal font,
- book titles, journal names, and other serial titles are *in slanted font*,
- volume numbers are **in bold font**,
- issue numbers are **in (normal font)**,
- series titles are IN SMALLCAPS, and
- URLs are in `monospaced font`, which should be achieved via the `\url{...}` command.

Anything else is in normal font

2 The structure of a bibitem

The *bibliography* is a list of all of the sources you have used in the process of researching your work. Sources include serials, books, reports, archives, and websites. The individual entries of a bibliography are called *bibitems.*

A *serial* refers to items published under the same title, generally as separate volumes, issues, or annual texts. Examples include newspapers, yearbooks, journals, magazines, annual reports, newsletters, conference proceedings, etc. In mathematics, almost always a serial means a journal; they are nearly synonyms.

A bibitem in a *BICA* bibliography is a comma-separated list of parts that ends with a period. These parts are

$$\text{WHO, WHAT, WHERE, WHEN, POSITION.}$$

WHO is the list of authors

$$\text{name}_1 \text{ and name}_2$$
$$\text{name}_1, \text{name}_2, \text{name}_3, \ldots, \text{name}_{n-1}, \text{ and name}_n$$

or a list of editors if there are no authors. The rules for editor names are the same as for authors except we append " (ed.)" or " (eds.)" to the list of names.

Names are in normal font. Two names and are seperated by `and`. Three or more names are separated by commas except that the last two are separated by `, and`. Names may have as many as three parts:

$$\text{given-name} \qquad \text{inherited-name} \qquad \text{suffix.}$$

No commas separate the parts just spaces.

given-name The parts of a given-name are abbreviated by initials with a `" "` between the initials. There is a period after each initial. Initials are capitalized.

A few people have only a single part to their given-name, many have two parts, and still others have three or more parts. All are abbreviated by their initial. For example, "Uppaluri Siva Ramachandra Murty" is abbreviated to `U. S. R. Murty`.

A hyphenated given-name keeps its hyphen when abbreviated. For example, "Gian-Carlo Rota" is abbreviated to `G.-C. Rota`.

inherited-name The inherited-name is also called the surname or the family name. They can have more than one part. For example "de Caen" or "von Neumann". The inherited-name is never

abbreviated, and capitalization should follow the conventions of the original author's preference. For example, in theses two examples the "de" and the "von" should not be capitalized.

Furthermore with a multipart inherited-name such as these two examples, alphabetize by the first letter of the first part. For example, "de Caen" is alphabetized after inherited-name "Davis", and the first letter of "von Neumann" is the "v" and not the "N".

suffix The suffix is typically Jr., Sr. I, II, III, etc., which respectively denote junior, senior, the first, the second, the third, and so forth. They are not common and are not used by many cultures, but here is an example: `L.G. Chouinard II`.

WHAT is the title of the bibitem. Book titles are in slanted font, and article titles in normal font. All titles are written in lower case except for proper names, proper adjectives, and possibly the first character of the title. If the first character is a letter, then it is capitalized. For example:

<div align="center">

`Sequencing partial Steiner triple systems`

</div>

and

<div align="center">

`$(40, 13, 4)$-designs derived from strongly regular graphs`

</div>

WHERE is the serial, larger work, or website that includes the bibitem.

- Serials (a.k.a. journals) are specified by an abbreviated serial name, volume, and year separated by spaces and not commas. Abbreviated serial names are in slanted font, volume is in bold font and year is in parentheses. Issue numbers are optional, but if included they should be written in parentheses after the volume number (with no separation). For example, **35**(3) means volume 35, issue 3.

  Use the accepted abbreviated serial name. (If you cannot find a designated abbreviation, please don't make one up. Instead, just use the full title of the serial.) Section 6 provides a list of many combinatorics serials and their abbreviations. A more complete list of serial name abbreviations is the AMS publication

  <div align="center">

  Abbreviations of names of serials,
  https://mathscinet.ams.org/msnhtml/serials.pdf.

  </div>

- Larger works require the addition of the publisher separated from the title by a comma. They may include a list of editors.

- ArXiv and website articles require the specification of a uniform resource locator (URL). For example:

  <div align="center">

  `\url{https://arxiv.org/abs/1812.05147}`

  </div>

- Articles appearing in a larger work such as a survey book, a handbook or conference proceedings have the article title separated from the larger work title by insertion of ", in ". For example:

  <div align="center">

  `Block designs, in Handbook of combinatorics, Vol. 1, 2`

  </div>

WHEN gives the year that the bibitem was published.

- Books, proceedings, and other larger works have the year occurring at the end.

- All other bibitems have the year in parentheses and followed by a comma. Immediately after this comma is the bibitem POSITION.

POSITION is where the bibitem is located within a serial or larger work. It has three forms.

First page--Last page This is typical of standard journal articles and chapters in books. Note the use of a double hyphen to achieve an endash separator between the page numbers. For example, to get "693–745" we may type "`693--745`" in the LaTeX code.

Article identifier, number of pages pp. This is typical of most electronically published journals. Some examples are

```
Art. 1, pp. 8
Dynamic survey 6, 43 pp.
Paper no. 3.2, pp. 32.
```

It depends a lot on the journal and can even vary over the years for the same journal.

pp. Number of pages This option as a standalone POSITION is rare but sometimes happens.

URL, accessed date For many online references, there is no physical POSITION provided. In that case, the URL and when the bibitem was last accessed is required. For example:

```
\url{https://arxiv.org/abs/1907.10760},  accessed 2023-07-23.
```

3 Examples

3.1 Articles

Author(s), Article title, *Abbreviated serial name* **Volume**(Optional Issue) (year), First page--Last page.

[1] R. G. Stanton and D. A. Sprott, Block intersections in balanced incomplete block designs, *Canad. Math. Bull.* **7** (1964), 539–548.

```
R.~G. Stanton and D.~A. Sprott, Block intersections in balanced incomplete block
designs, \textsl{Canad. Math. Bull.} \textbf{7} (1964), 539--548.
```

[2] M. Kreh and J.-H. de Wiljes, Peg solitaire on corona products, *Bull. Inst. Combin. Appl.* **96** (2022), 107–118.

```
M. Kreh and J.-H. de~Wiljes, Peg solitaire on corona products, \textsl{Bull.
Inst. Combin. Appl.} \textbf{96} (2022), 107--118.
```

[3] L. G. Chouinard II, Bounding graphical t-wise balanced designs, *Discrete Math.* **159**(1) (1996), 261–263.

```
L.~G. Chouinard II, Bounding graphical $t$-wise balanced designs,
\textsl{Discrete Math.} \textbf{159}(1) (1996), 261--263.
```

3.2 Articles in press

"In press" means the article has been accepted for publication in a future issue.

Author(s), Title, *Abbreviated serial name* (Year accepted), in press.

[1] S. Das and S. Rai, On M-polynomial and associated topological descriptors of subdivided Hex-derived network of type three, *Comput. Technol.* (2022), in press.

```
S. Das and S. Rai, On M-polynomial and associated topological descriptors of
subdivided hex-derived network of type three, \textsl{Comput. Technol.}
(2022), in press.
```

3.3 Chapters in a book

Author(s), Article itle, in *Book title*, Optional (Editor(s)), (Year), First page--Last page.

[1] A. E. Brouwer, Block designs, in *Handbook of combinatorics, Vol. 1, 2*, R. L. Graham, M. Grötschel, and L. Lovász (eds.), Elsevier Sci. B. V., Amsterdam, (1995), 693–745.

```
A.~E. Brouwer, Block designs, in \textsl{Handbook of combinatorics, {V}ol. 1,
2}, R.~L. Graham, M. Gr\"{o}tschel and L. Lov\'{a}sz (eds.), Elsevier Sci. B.~V.,
Amsterdam, (1995), 693--745.
```

3.4 Articles in proceedings

Author(s), Article title, in *Proceedings Title*, Publisher, (Year), First page--Last page.

[1] P. Indyk, H. Q. Ngo, and A. Rudra, Efficiently decodable non-adaptive group testing, in *Proceedings of the Twenty-First Annual ACM-SIAM Symposium on Discrete Algorithms*, SIAM, Philadelphia, PA, (2010), 1126–1142.

```
P. Indyk, H.~Q. Ngo, and A. Rudra, Efficiently decodable non-adaptive group
testing, in \textsl{Proceedings of the {T}wenty-{F}irst {A}nnual
{ACM}-{SIAM} {S}ymposium on {D}iscrete {A}lgorithms}, SIAM, Philadelphia,
PA, (2010), 1126--1142.
```

[2] S. Magliveras, The non-existence of rank-3 transitive extensions of the Higman-Sims simple group, in *Proceedings of the conference on finite groups (univ. utah, park city, utah, 1975)*, Academic Press, Inc. [Harcourt Brace Jovanovich, Publishers], New York-London, (1976), 457–469.

```
S. Magliveras, The non-existence of rank-3 transitive extensions of the
{H}igman-{S}ims simple group., in \textsl{Proceedings of the Conference on
Finite Groups (Univ. Utah, Park City, Utah, 1975)}, Academic Press, Inc.
[Harcourt Brace Jovanovich, Publishers], New York-London, (1976), 457--469.
```

3.5 Articles with article identifier and no page-range

Author(s), Title, *Abbreviated serial name*, **Volume** (Year), Article identifier, pp. Number of pages.

[1] R. Davila and F. Kenter, Bounds for the zero forcing number of graphs with large girth, *Theory Appl. Graphs* **2**(2) (2015), Art. 1, pp. 8.

```
R. Davila and F. Kenter, Bounds for the zero forcing number of graphs with
large girth, \textsl{Theory Appl. Graphs} \textbf{2}(2) (2015), Art. 1, pp.  8.
```

[2] J. A. Gallian, A dynamic survey of graph labeling, *Electron. J. Combin.* **5** (1998), Dynamic Survey 6, pp. 43.

```
J.~A. Gallian, A dynamic survey of graph labeling, \textsl{Electron. J.
Combin.} \textbf{5} (1998), Dynamic survey 6, pp. 43.
```

[3] C. Duffy, T. F. Lidbetter, M. E. Messinger, and R. J. Nowakowski, A variation on chip-firing: the diffusion game, *Discrete Math. Theor. Comput. Sci.* **20**(1) (2018), Paper No. 4, pp. 18.

C. Duffy, T. F. Lidbetter, M. E. Messinger, and R. J. Nowakowski, A variation on chip-firing: the diffusion game, Discrete Math. Theor. Comput. Sci., **20**(1) (2018), Paper No. 4, pp. 18.

3.6 Articles that only have a URL

Author(s), Title, *Abbreviated serial name*, **Volume** (Year), URL.

[1] J. Daniel, K. A. Sugeng, and N. Hariadia, Eigenvalues of antiadjacency matrix of Cayley graph of Z_n, *Indonesian Journal of Combintorics* **6** (2022), http://dx.doi.org/10.19184/ijc.2022.6.1.5.

```
J. Daniel, K.~A. Sugeng, and N. Hariadia, Eigenvalues of antiadjacency matrix of
{C}ayley graph of {$Z_n$}, \textsl{Indonesian Journal of Combintorics}
\textbf{6} (2022), \url{http://dx.doi.org/10.19184/ijc.2022.6.1.5}.
```

3.7 Books

Author(s) or Editor(s), *Book title*, Optional edition, Publisher, Year. Optional URL.

[1] D. R. Stinson, *Combinatorial designs*, Springer-Verlag, New York, 2004.

```
D.~R. Stinson, \textsl{Combinatorial designs}, Springer-Verlag, New York,
2004.
```

[2] K. H. Rosen, D. R. Shier, and W. Goddard (eds.), *Hanbook of discrete and combinatorial mathematics*, CRC Press, Boca Raton, FL, 2018.

```
K.~H. Rosen, D.~R. Shier, and W. Goddard (eds.), \textsl{Handbook of discrete and
combinatorial mathematics}, second edn., \textsc{Discrete Mathematics and
its Applications (Boca Raton)} CRC Press, Boca Raton, FL, 2018.
```

[3] R. Diestel, *Graph theory*, Springer, Heidelberg, 2010.

```
R. Diestel, \textsl{Graph theory}, \textsc{Graduate Texts in Mathematics},
\textsc{vol.} \textsc{173} fourth edn., Springer, Heidelberg, 2010.
\url{https://doi.org/10.1007/978-3-642-14279-6}.
```

3.8 Dissertations/Theses

Author, *Dissertation/thesis title*, Ph.D. thesis (or Master's thesis), University (or college), Year.

[1] A. Pastine, *Two problems of Gerhard Ringel*, Ph.D. Thesis, 2016.

```
A. Pastine, \textsl{Two problems of Gerhard Ringel}, Ph.D. thesis,
Michigan Technological University, 2016.
```

[2] D. Kamin, *Hamilton-Waterloo problem with triangle and C_9 factors*, Master's Thesis, 2011.

```
D. Kamin, \textsl{Hamilton-Waterloo problem with triangle and $C_9$ factors},
Master's thesis, Michigan Technological University, 2011.
```

3.9 Articles posted on arXiv and Webpages

Author(s), Article title, (year posted), URL, Date accessed.

[1] B. Alspach, D. L. Kreher, and A. Pastine, Sequencing partial Steiner triple systems, (2019), https://arxiv.org/abs/1907.10760, accessed 2023-07-23.

```
B. Alspach, D.~L. Kreher, and A. Pastine, Sequencing partial Steiner triple
systems, (2019), \url{https://arxiv.org/abs/1907.10760}, accessed
2023-07-23.
```

[2] C. J. Colbourn, D. R. Stinson, and S. Veitch, Constructions of optimal orthogonal arrays with repeated rows, (2018), https://arxiv.org/abs/1812.05147, accessed 2023-07-23.

C.~J. Colbourn, D.~R. Stinson, and S. Veitch, Constructions of optimal orthogonal
arrays with repeated rows, (2018), \url{https://arxiv.org/abs/1812.05147},
accessed 2023-07-23.

[3]   O. A. AbuGhneim, $(96, 20, 4)$ difference sets and related structures, (2014), http://eacademic.ju.edu.jo/o.abughnei
m/Shared%20Documents/Forms/AllItems.aspx, accessed: 2018-06-16.

O.~A. AbuGhneim, $(96,20,4)$ difference sets and related structures, (2014),
\url{http://eacademic.ju.edu.jo/o.abughneim/Shared\%20Documents/Forms/AllItems.aspx},
accessed: 2018-06-16.

[4]   N. Markey, Tame the BeaST, (2009), http://tug.ctan.org/info/bibtex/tamethebeast/ttb_en.pdf, accessed
2023-07-10.

N. Markey, Tame the {B}ea{S}{T}, (2009),
\url{http://tug.ctan.org/info/bibtex/tamethebeast/ttb_en.pdf}, accessed
2023-07-10.

3.10   Technical reports

Author(s), Title, Institution, Report identifier, URL.

[1]   L. Lamport, Constructing digital signatures from a one way function, *Microsoft Research*, Tech. Rep.CSL-98, (1979),
https://www.microsoft.com/en-us/research/publication/constructing-digital-signatures-one-way-function/.

L. Lamport, Constructing digital signatures from a one way function,
\textsl{Microsoft Research}, Tech. Rep. CSL-98 (1979),
\url{https://www.microsoft.com/en-us/research/publication/constructing-digital-signatures-one-way-f

3.11   Conference Proceedings

Optional Editor(s), *Proceedings title*, CONFERENCE SERIES, Publisher, Year.

[1]   *Proceedings of the Forty-Second Southeastern International Conference on Combinatorics, Graph Theory and Comput-
ing*, CONGR. NUMER. 208, Utilitas Mathematica Publishing, Inc., Winnipeg, MB, 2011.

\textsl{Proceedings of the Forty-Second Southeastern International Conference
on Combinatorics, Graph Theory and Computing}, \textsc{Congr. Numer. 208}
Utilitas Mathematica Publishing, Inc., Winnipeg, MB, 2011.

3.12   Personal communications

Author, personal communication (year when communication was received).

[1]   S. El-Zanati, personal communication (2018).

S. El-Zanati, personal communication (2018).

Part II
I like using BibTeX

Contents

4 A brief introduction to BibTeX

4.1 Encouragement

Authors are encouraged to use BibTeX to manage references, but it is not required. If authors do use BibTeX, please include your `.bib` file with your final manuscript package sent to the editors. We use the `amsrefs` pacakge with the option `abbrev`. There is no need for a `\bibliographystyle` command; `amsrefs` will automatically invoke the correct style. In fact, any `\bibliographystyle` command you put in your document will be ignored. However, using the standard BibTeX style file `plain.bst` is also acceptable, it will just be ignored when using the *BICA* document class.

Consistency can be obtained by downloading BibTeX entries from AMS MathSciNet, at least for papers that have an AMS mathematical review. BibTeX entries can also be obtained from https://arxiv.org/ and other repositories and indexing platforms. Regardless of where BibTeX entries are obtained, they may require minor editing.

In Sections 4.4 and 4.5 the BibTeX *entry types* and available *fields* are described. Precise details can be found in N. Markey's article, *Tame the BeaST*, available from CTAN, see [1]. It is the most complete description of BibTeX that I know of.

4.2   How to use BIBTEX

To use BIBTEX you must do the following:

1. Create a bibliography database. This is a plain text file with extension `.bib` that describes the articles that you want to reference. For example, if your LATEX file is `MyFile.tex`, you might use `MyRefs.bib` as your data base, but you can use any name. A sample `.bib` file is provided in Section 5.

2. Specify the style and location of the bibliography in your LATEX document. For *BICA*, you would include the line

    `\bibliography{MyRefs}`

   in your LATEX file (`MyFile.tex`) at the end of your manuscript. (Be sure to have `MyRefs.bib` saved in the same folder as `MyFile.tex`.)

3. Run `pflatex`, `bibtex`, and `pflatex` again in say TEXLIVE, or from a terminal window enter

    ```
    pdflatex MyFile;
    bibtex MyFile;
    pdflatex MyFile;
    ```

   (You can use `xelatex`, `lautex` or any `latex` process that genorates a `.pdf` file.) I have installed TEXLIVE, but I never use it. I always edit files and run programs from a terminal window. Installing TEXLIVE provided the command line tools: `pdflatex` or `xelatex` and `bibtex`.

4.3   Tips for a successful `.bib` file

(1) The general form of a BIBTEX entry is

$$
\begin{array}{lcl}
\text{@entry-type\{cite-key,} & & \\
\quad \text{field}_1 & = & \{\text{value}_1\}, \\
\quad \text{field}_2 & = & \{\text{value}_2\}, \\
\quad \vdots & \vdots & \vdots \\
\quad \text{field}_n & = & \{\text{value}_n\}, \\
\} & &
\end{array}
$$

- The possible entry-types are given in Section 4.4.
- The cite-key becomes `\bibitem{cite-key}` for which you write `\cite{cite-key}` in your LATEX file when you are citing this reference.
- The possible fields are given in Section 4.5.

Here is a sample BIBTEX entry:

```
@article {Janko1982,
     AUTHOR    =    {Janko, Zvonimir and van Trung, Tran},
     TITLE     =    {Two new semibiplanes},
     JOURNAL   =    {J. Combin. Theory Ser. A},
     VOLUME    =    {33},
     YEAR      =    {1982},
     NUMBER    =    {1},
     PAGES     =    {102–105},
}
```

This will generate

```
\bibitem{Janko1982}
Z. Janko and T. van Trung, Two new semibiplanes, \textsl{J. Combin. Theory
Ser. A} \textbf{33(1)} (1982), 102--105.
```

(2) Review the sample `.bib` file in Section .

(3) Note that field names are case insensitive; they can be any mix of lower- and upper-case letters. For example you can write:

- `AUTHOR = { ... }`, as MathSciNet does,
- `author = { ... }`, as arXiv does,
- `Author = { ... }`, as I do, or
- `AUtHor = { ... }`, if you are feeling innovative.

(4) Do not forget to put "commas" after each field entry. A missing "comma" will be the most likely error when your `.bib` file is not working. (Although a "comma" after the very last field entry is optional, I recommend that you include one.)

(5) Author and Editor names have two or three parts, which we will call FIRST, LAST, and SUFFIX.

FIRST This is the first or given-name, and it can have more than one part.
For example: `Uppaluri Siva Ramachandra` has 3 parts.

LAST This is the inherited-name or surname, and it too can have more than one part.
For example: `de Caen` and `von Neumann` each have two parts.

SUFFIX This is typically `Sr`, `Jr`, `I`, `II`, `III`, etc.

There are 3 possible formats:

  i. FIRST LAST

  ii. LAST, FIRST

  iii. LASTSUFFIX, FIRST

BIBTEX can determine what to do by counting commas and the parts that begin lower case versus upper case. FIRST will be turned into initials and written first, next LAST will be written and is followed by the suffix. An exception is when FIRST contains a hyphen. Abbreviated hyphenated given-names should and will keep their hyphen. For example: Gian-Carlo Rota will format as G.-C. Rota. Here is an example that illustrates the possible ways to format names.

```
AUTHOR = {C. J. Colbourn and Uppaluri Siva Ramachandra Murty and Dominique de Caen
          and von Neumann, John  and Gian-Carlo Rota and Hall Jr., Marshall}
```

will format as

> C.J. Colbourn, U.S.R. Murty, D. de Caen, J. von Neumann, G.-C. Rota and M. Hall Jr.

(6) Do not use the form `{\v c}` (for example) for accents, use `\v{c}` instead. The space will break the code for formatting names.

```
AUTHOR = {Crnkovi\'{c}, Dean and \v{S}vob, Andrea}
```

(7) Titles will format with first letter capitalized and all remaining letters in lowercase unless those letters are in braces. Thus to render

> Two problems of Gerhard Ringel

as the title, we write

```
TITLE = {Two problems of {G}erhard {R}ingel},
```

in the BIBTEX entry.

(8) BIBTEX builds the bibliography from the references that are actually cited in the paper. To include a reference that is not cited in the paper, but which has a record in the BIBTEX database, add the command `\nocite{xxx}` at the end of the paper, just before the bibliography; here "xxx" is the cite-key for the BIBTEX item to be cited. The command `\nocite{*}` causes all items in the database to be included in the references, regardless of whether or not they are cited in the paper. Although including references that have not been cited may be useful while developing your manuscript, please do not include them in your final manuscript.

4.4   Available BIBTEX entry types

Entry type		Available fields (**mandatory** and **optional**)
@article	An article published in a journal.	**author**, **title**, **journal**, **year**, **volume**, **number**, **pages**, **url**, **note**
@book	Authored work bound together within covers.	**author/editor**, **title**, **year**, **publisher**
@incollection	Part of a book having its own title.	**author**, **title**, **booktitle**, **year** **editor**, **publisher**, **pages**
@inproceedings	Article that appeared in the proceedings of a conference.	**author**, **title**, **booktitle**, **year**, **editor**, **publisher**, **howpublished**, **url**, **doi**, **note**
@mastersthesis	Masters thesis or something equivalent.	**author**, **title**, **school**, **year**
@misc	For arXiv postings, webpages and when nothing else fits.	**author**, **title**, **year**, **url**, **note**
@phdthesis	PhD dissertation or similar.	**author**, **title**, **school**, **year**
@proceedings	Conference proceedings.	**title**, **year**, **editor**, **series**, **publisher**, **key**
@techreport	Technical report, published by a laboratory, or research center, etc.	**author**, **title**, **ogranization**, **year** , **number**, **url**, **note**

4.5   BIBTEX entry fields

Field	Description
author, editor	The list of author names or editor names are separated by the keyword `and`; do not use a comma as a separator. The format for author and editor names is the same and is a bit special, see Section 4.3(5).
journal	The `journal` field should contain the approved abbreviation for the journal, see Section 6.
title, volume, year, booktitle	These fields are straightforward and are what you think they are.
url	This field formats its value as a URL.
pages	There are 3 admissible formats for the pages field.

	(1) *first page--last page*
	(2) *article identifier*, *number of pages*
	(3) *number of pages*
organization, school	It is the university, research laboratory, center, etc. where the technical report, thesis or proceedings was produced.
note	Additional data added to the end of a bibliography entry, for example when a website was last acessed. (Prior to 1985 this was how URLs were added.)
key	Used for defining a sort-key, when there is no authors or editors.
number	The number of a technical report or proceedings or journal volume issue .
publisher	The publisher of the book.
series	The proceedings' series.

The BIBTEX file that was used to generate the bibliography for this reference guide is given in Section 5 and serves as a set of examples that can be mimicked.

5 Sample BIBTEX database entries

This section displays contents of the `.bib` file used to generate the sample bibliography found in Section 7. A copy of this `.bib` file, can be downloaded from https://pages.mtu.edu/~kreher/BICA/ForAuthors.html. Most of the entries were exported from MathSciNet, with ignored fields removed to save space.

- **Standard journal article**

```
@article {Stanton1964,
      AUTHOR = {Stanton, R. G. and Sprott, D. A.},
       TITLE = {Block intersections in balanced incomplete block designs},
     JOURNAL = {Canad. Math. Bull.},
      VOLUME = {7},
        YEAR = {1964},
       PAGES = {539--548},
}
```

- **Article with a hyphenated first name**

```
@article {Kreh2022,
      AUTHOR = {Kreh, Martin and Jan-Hendrik de Wiljes},
       TITLE = {Peg solitaire on corona products},
     JOURNAL = {Bull. Inst. Combin. Appl.},
      VOLUME = {96},
        YEAR = {2022},
       PAGES = {107--118},
}
```

- **Article with an author name suffix**

```
@article {Chouinard1996,
      AUTHOR = {Chouinard, II, Leo G.},
       TITLE = {Bounding graphical $t$-wise balanced designs},
     JOURNAL = {Discrete Math.},
      VOLUME = {159},
      NUMBER = {1},
        YEAR = {1996},
       PAGES = {261--263},
}
```

- **Article with a 2-part last name**

```
@article {Janko1982,
      AUTHOR = {Janko, Zvonimir and  van Trung, Tran},
       TITLE = {Two new semibiplanes},
     JOURNAL = {J. Combin. Theory Ser. A},
      VOLUME = {33},
        YEAR = {1982},
      NUMBER = {1},
       PAGES = {102--105},
}
```

- **Article with an article identifier, number of pages**

```
@article {Davila2015,
      AUTHOR = {Davila, Randy and Kenter, Franklin},
       TITLE = {Bounds for the zero forcing number of graphs with large girth},
     JOURNAL = {Theory Appl. Graphs},
      VOLUME = {2},
        YEAR = {2015},
      NUMBER = {2},
       PAGES = {Art. 1, pp. 8},
}
```

```
@article {Gallian1998,
      AuThOR = {Gallian, Joseph A.},
       TITLE = {A dynamic survey of graph labeling},
     Journal = {Electron. J. Combin.},
      volUME = {5},
        YEAR = {1998},
       PAGES = {Dynamic Survey 6, pp. 43},
}
```

- **Article only with a URL**

```
@article {Daniel2022,
    Author = {Daniel, Juan  and Kiki Ariyanti Sugeng and Nora Hariadia},
    Title = {Eigenvalues of antiadjacency matrix of {C}ayley graph of {$Z_n$}},
    Journal = {Indonesian Journal of Combintorics},
    Volume = {6},
    Year = {2022},
    url = {http://dx.doi.org/10.19184/ijc.2022.6.1.5},
    Addendum = {accessed 2023-07-23},
}
```

- **Article in press**

```
@article {Das2022,
    Author = {S. Das and S. Rai},
    Title = {On {M}-polynomial and associated topological descriptors of subdivided {H}ex-derived network of type
    Journal = {Comput. Technol.},
    year = {2022},
    Note = {in press},
}
```

- **Article in a conference proceedings**

```
@inproceedings {Indyk2010,
       AUTHOR = {Indyk, Piotr and Ngo, Hung Q. and Rudra, Atri},
        TITLE = {Efficiently decodable non-adaptive group testing},
    BOOKTITLE = {Proceedings of the {T}wenty-{F}irst {A}nnual {ACM}-{SIAM}
                {S}ymposium on {D}iscrete {A}lgorithms},
        PAGES = {1126--1142},
    PUBLISHER = {SIAM, Philadelphia, PA},
         YEAR = {2010},
}
```

```
@inproceedings {Magliveras1976,
       AUTHOR = {Magliveras, Spyros},
        TITLE = {The non-existence of rank-3 transitive extensions of the {H}igman-{S}ims simple group},
    BOOKTITLE = {Proceedings of the Conference on Finite Groups (Univ.  Utah, Park City, Utah, 1975)},
        PAGES = {457--469},
    PUBLISHER = {Academic Press, Inc. [Harcourt Brace Jovanovich, Publishers],
                New York-London},
         YEAR = {1976},
}
```

- **Chapter in a book**

```
@incollection {Brouwer1995,
       AUTHOR = {Brouwer, Andries E.},
        TITLE = {Block designs},
    BOOKTITLE = {Handbook of combinatorics, {V}ol. 1, 2},
        PAGES = {693--745},
    PUBLISHER = {Elsevier Sci. B. V., Amsterdam},
       EDITOR = {R. L. Graham and M. Grötschel and L. Lovász},
         YEAR = {1995},
}
```

- **Book**

```
@book {Stinson2004,
       AUTHOR = {Stinson, Douglas R.},
        TITLE = {Combinatorial designs},
    PUBLISHER = {Springer-Verlag, New York},
         YEAR = {2004},
}
```

- **Book with editors and no author**

```
@book {HDCM,
        TITLE = {Hanbook of discrete and combinatorial mathematics},
       SERIES = {Discrete Mathematics and its Applications (Boca Raton)},
       EDITOR = {Rosen, Kenneth H. and Shier, Douglas R. and Goddard, Wayne},
      EDITION = {Second},
    PUBLISHER = {CRC Press, Boca Raton, FL},
         YEAR = {2018},
}
```

- **Book with a URL**

```
@book {Diestel2010,
       AUTHOR = {Diestel, Reinhard},
        TITLE = {Graph theory},
       SERIES = {Graduate Texts in Mathematics},
       VOLUME = {173},
      EDITION = {Fourth},
    PUBLISHER = {Springer, Heidelberg},
         YEAR = {2010},
          URL = {https://doi.org/10.1007/978-3-642-14279-6},
}
```

- **Ph.D. thesis**

```
@phdthesis{Pastine2016,
       AUTHOR = {Pastine, Adri\'{a}n},
        TITLE = {Two problems of {G}erhard {R}ingel},
        shool = {Michigan Technological University},
         YEAR = {2016},
}
```

- **Master's thesis**

```
@mastersthesis{Kamin2011,
      AUTHOR = {Kamin, David},
       TITLE = {{H}amilton-{W}aterloo problem with triangle and {$C_9$} factors},
      shool = {Michigan Technological University},
        year = {2011},
}
```

- **arXiv**

```
@misc{Alspach2019,
        title={Sequencing Partial {S}teiner Triple Systems},
        author={Brian Alspach and Donald L. Kreher and Adrián Pastine},
        year={2019},
        eprint={1907.10760},
        archivePrefix={arXiv},
        primaryClass={math.CO},
        url={https://arxiv.org/abs/1907.10760},
    note = {accessed 2023-07-23},
}
```

```
@misc{colbourn2018,
        title={Constructions of optimal orthogonal arrays with repeated rows},
        author={Charles J. Colbourn and Douglas R. Stinson and Shannon Veitch},
        year={2018},
        eprint={1812.05147},
        archivePrefix={arXiv},
        primaryClass={math.CO},
        url={https://arxiv.org/abs/1812.05147},
   note={accessed 2023-07-23},
}
```

- **Webpage**

```
@misc{AbuGhneim2014,
    Title = {$(96,20,4)$ difference sets and related structures},
    Author = {AbuGhneim, O. A.},
    url = {http://eacademic.ju.edu.jo/o.abughneim/Shared\%20Documents/Forms/AllItems.aspx},
    Year = {2014},
    note = {accessed: 2018-06-16},
}
```

```
@misc{Markey2009,
    Title = {Tame the {B}ea{S}{T}},
    Author = {Markey, N.},
    Year = {2009},
    Url = {http://tug.ctan.org/info/bibtex/tamethebeast/ttb_en.pdf},
    note = {accessed 2023-07-10},
}
```

- **Technical report**

```
@techreport{Lamport1979,
    Author = {Lamport, Leslie},
    Title = {Constructing Digital Signatures from a One Way Function},
    Year = {1979},
    Number = {CSL-98},
    Institution = {Microsoft Research},
    Url = {https://www.microsoft.com/en-us/research/publication/constructing-digital-signatures-one-way-function/
}
```

- **Conference proceedings**

```
@proceedings {P1,
        TITLE = {Proceedings of the {F}orty-{S}econd {S}outheastern {I}nternational {C}onference on
  {C}ombinatorics, {G}raph {T}heory and {C}omputing},
       SERIES = {Congr. Numer. 208},
    PUBLISHER = {Utilitas Mathematica Publishing, Inc., Winnipeg, MB},
         YEAR = {2011},
          KEY = {Proc},
}
```

```
@proceedings {P2,
        TITLE = {Proceedings of the {T}hirty-{F}ifth {C}onference on the
                 {M}athematical {F}oundations of {P}rogramming {S}emantics},
       SERIES = {Electronic Notes in Theoretical Computer Science},
       VOLUME = {347},
       EDITOR = {K\"{o}nig, Barbara},
         NOTE = {(MFPS XXXV) June 4--7, 2019, London, UK},
    PUBLISHER = {Elsevier Science B.V., Amsterdam},
         YEAR = {2019},
        PAGES = {324},
}
```

- **Personal communication**

```
@article{El-Zanati,
    Author = {S. El-Zanati},
    Year = {2018},
    title = {personal communication},
}
```

Part III
Helpful data

6   Abbreviations for some combintorics and graph theory journals

Full journal name	Abbreviated journal name
AKCE International Journal of Graphs and Combinatorics	AKCE Int. J. Graphs Comb.
Acta Mathematica Sinica (English Series)	Acta Math. Sin. (Engl. Ser.)
Acta Mathematica Universitatis Comenianae (New Series)	Acta Math. Univ. Comenian. (N.S.)
Acta Universitatis Carolinae	Acta Univ. Carolin. Math. Phys.
Advances in Geometry	Adv. Geom.
Advances in Mathematics of Communications	Adv. Math. Commun.
Advances in Applied Mathematics	Adv. in Appl. Math.
Aequationes Mathematicae	Aequationes Math.
Algorithmica	Algorithmica
American Journal of Mathematics	Amer. J. Math.
American Journal of Mathematical and Management Sciences	Amer. J. Math. Management Sci.
American Mathematical Monthly	Amer. Math. Monthly
Annals of Combinatorics	Ann. Comb.
Annals of Discrete Mathematics	Ann. Discrete Math.
Annals of the New York Academy of Sciences	Ann. New York Acad. Sci.
Annals of Operations Research	Ann. Oper. Res.
Applied Mathematics and Computation	Appl. Math. Comput.
Applied Mathematics Letters	Appl. Math. Lett.
Archiv der Mathematik	Arch. Math. (Basel)
Ars Combinatoria	Ars Combin.
Ars Mathematica Contemporanea	Ars Math. Contemp.
The Art of Discrete and Applied Mathematics	Art Discrete Appl. Math.
The Australasian Journal of Combinatorics	Australas. J. Combin.
Bayreuther Mathematische Schriften	Bayreuth. Math. Schr.
The Bell System Technical Journal	Bell System Tech. J.
Bulletin of the American Mathematical Society	Bull. Amer. Math. Soc.
Bulletin of the Australian Mathematical Society	Bull. Austral. Math. Soc.
Bulletin of the Belgian Mathematical Society. Simon Stevin	Bull. Belg. Math. Soc. Simon Stevin
Bulletin of the Institute of Combinatorics and its Applications	Bull. Inst. Combin. Appl.
La Société Royale du Canada	C. R. Math. Rep. Acad. Sci. Canada
Canadian Journal of Mathematics	Canad. J. Math.
Canadian Mathematical Bulletin	Canad. Math. Bull.
Canadian Journal of Mathematics	Canadian J. Math.

Full journal name	Abbreviated journal name
Central European Journal of Mathematics	Cent. Eur. J. Math.
The College Mathematics Journal	College Math. J.
Colloquium Mathematicum	Colloq. Math.
Combin. Probab. Comput.	Combin. Probab. Comput.
Combinatorica	Combinatorica
Commentarii Mathematici Helvetici	Comment. Math. Helv.
Commentationes Mathematicae Universitatis Carolinae	Comment. Math. Univ. Carolin.
Compositio Mathematica	Compositio Math.
The Computer Journal	Comput. J.
Computers & Mathematics with Applications	Comput. Math. Appl.
Congressus Numerantium	Congr. Numer.
Cryptography and Communications	Cryptogr. Commun.
Czechoslovak Mathematical Journal	Czechoslovak Math. J.
Designs, Codes and Cryptography	Des. Codes Cryptogr.
Discrete Applied Mathematics	Discrete Appl. Math.
Discrete Mathematics & Theoretical Computer Science	Discrete Math. Theor. Comput. Sci.
Discrete Mathematics, Algorithms and Applications	Discrete Math. Algorithms Appl.
Discrete Mathematics Letters	Discrete Math. Lett.
Discrete Mathematics	Discrete Math.
Discrete Optimization	Discrete Optim.
Discussiones Mathematicae. Graph Theory	Discuss. Math. Graph Theory
Electronic Journal of Combinatorics	Electron. J. Combin.
Electronic Journal of Graph Theory and Applications	Electron. J. Graph Theory Appl.
Elemente der Mathematik	Elem. Math.
European Journal of Combinatorics	European J. Combin.
Experimental Mathematics	Experiment. Math.
Expositiones Mathematicae	Exposition. Math.
The Fibonacci Quarterly	Fibonacci Quart.
Finite Fields and their Applications	Finite Fields Appl.
Geometriae Dedicata	Geom. Dedicata
Glasgow Mathematical Journal	Glasgow Math. J.
Graphs and Combinatorics	Graphs Combin.
Indian Journal of Mathematics	Indian J. Math.
Information Processing Letters	Inform. Process. Lett.
Information and Computation	Inform. and Comput.
Innovations in Incidence Geometry	Innov. Incidence Geom.
International Journal of Mathematics and Mathematical Sciences	Int. J. Math. Math. Sci.
Israel Journal of Mathematics	Israel J. Math.
Journal of Algebra Combinatorics Discrete Structures and Applications	J. Algebra Comb. Discrete Struct. Appl.

Full journal name	Abbreviated journal name
Journal of Algebraic Combinatorics	J. Algebraic Combin.
Journal of Algebra	J. Algebra
Journal of Algorithms	J. Algorithms
Journal of the Australian Mathematical Society	J. Austral. Math. Soc.
Journal of Combinatorial Optimization	J. Comb. Optim.
Journal of Combinatorial Designs	J. Combin. Des.
Journal of Combinatorics	J. Combin.
Journal of Combinatorics, Information & System Sciences	J. Combin. Inform. System Sci.
Journal of Combinatorial Mathematics and Combinatorial Computing	J. Combin. Math. Combin. Comput.
Journal of Combinatorial Theory Series A	J. Combin. Theory Ser. A
Journal of Combinatorial Theory Series B	J. Combin. Theory Ser. B
Journal of Combinatorial Theory	J. Combinatorial Theory
Journal of Cryptology	J. Cryptology
Journal of Discrete Algorithms	J. Discrete Algorithms
Journal of the Franklin Institute	J. Franklin Inst.
Journal of Geometry	J. Geom.
Journal of Graph Theory	J. Graph Theory
Journal of the Indonesian Mathematical Society	J. Indones. Math. Soc.
The Journal of the London Mathematical Society	J. London Math. Soc.
Journal of Mathematical Cryptology	J. Math. Cryptol.
Journal de Mathématiques Pures et Appliquées	J. Math. Pures Appl.
Journal of Parallel and Distributed Computing	J. Parallel Distrib. Comput.
Journal für die Reine und Angewandte Mathematik	J. Reine Angew. Math.
Journal of Research of the National Bureau of Standards	J. Res. Nat. Bur. Standards
Journal of Statistical Theory and Practice	J. Stat. Theory Pract.
Journal of Statistical Planning and Inference	J. Statist. Plann. Inference
Linear Algebra and Its Applications	Linear Algebra Appl.
Linear and Multilinear Algebra	Linear Multilinear Algebra
Le Matematiche	Matematiche (Catania)
Mathematische Annalen	Math. Ann.
Mathematica Bohemica	Math. Bohem.
Mathematics of Computation	Math. Comp.
Mathematics in Computer Science	Math. Comput. Sci.
Mathematica Pannonica	Math. Pannon.
Mathematical Programming	Math. Programming
Mathematica Scandinavica	Math. Scand.
Mathematica Slovaca	Math. Slovaca
The Mathematics Student	Math. Student
Mathematische Zeitschrift	Math. Z.

Full journal name	Abbreviated journal name
Mathematika	Mathematika
Mitteilungen aus dem Mathematischen Seminar Giessen	Mitt. Math. Sem. Giessen
Nanta Mathematica	Nanta Math.
Networks	Networks
New Zealand Journal of Mathematics	New Zealand J. Math.
Operations Research Letters	Oper. Res. Lett.
Opuscula Mathematica	Opuscula Math.
Order	Order
Pacific Journal of Mathematics	Pacific J. Math.
Parallel Processing Letters	Parallel Process. Lett.
Periodica Mathematica Hungarica	Period. Math. Hungar.
Portugaliae Mathematica	Portugal. Math.
Probability in the Engineering and Informational Sciences	Probab. Engrg. Inform. Sci.
Proceedings of the American Mathematical Society	Proc. Amer. Math. Soc.
Proceedings of the Cambridge Philosophical Society	Proc. Cambridge Philos. Soc.
Proceedings of the Edinburgh Mathematical Society	Proc. Edinburgh Math. Soc.
Quaestiones Mathematicae	Quaest. Math.
The Quarterly Journal of Mathematics	Q. J. Math.
Quasigroups and Related Systems	Quasigroups Related Systems
Rendiconti di Matematica e delle sue Applicazioni	Rend. Mat. Appl.
Rendiconti del Seminario Matematico di Messina	Rend. Sem. Mat. Messina
Rendiconti del Seminario Matematico della Università di Padova	Rend. Sem. Mat. Univ. Padova
SIAM Journal on Algebraic and Discrete Methods	SIAM J. Algebraic Discrete Methods
SIAM Journal on Applied Mathematics	SIAM J. Appl. Math.
SIAM Journal on Computing	SIAM J. Comput.
SIAM Journal on Discrete Mathematics	SIAM J. Discrete Math.
SIAM Review	SIAM Rev.
Studia Scientiarum Mathematicarum Hungarica	Studia Sci. Math. Hungar.
Taiwanese Journal of Mathematics	Taiwanese J. Math.
Tatra Mountains Mathematical Publications	Tatra Mt. Math. Publ.
Theoretical Computer Science	Theoret. Comput. Sci.
Theory and Applications of Graphs	Theory Appl. Graphs
Theory of Computing Systems	Theory Comput. Syst.
Transactions of the American Mathematical Society	Trans. Amer. Math. Soc.
Transactions of the New York Academy of Sciences	Trans. New York Acad. Sci.
Utilitas Mathematica	Util. Math.

7   Sample bibliography

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[13] P. Indyk, H. Q. Ngo, and A. Rudra, Efficiently decodable non-adaptive group testing, in *Proceedings of the Twenty-First Annual ACM-SIAM Symposium on Discrete Algorithms*, SIAM, Philadelphia, PA, (2010), 1126–1142.

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